Range and Training Area Management Division

USMC Range Management

August 26, 2004

WHAT ARE MY RANGES SUPPOSED TO LOOK LIKE?

- **366 Report**
- **Range Capabilities Document**
- **Strategic Vision/Master Plan**
- **MCO 3550.9 Range Certification & Recertification**
- **Technical Assistance Visits (TAV's)**

Congressional Report (DAA 366)

Assessment of *current and future training requirements through 2024*

- Service range inventory system that includes *all training capabilities at each operational range*
- Identification of training constraints by limitations at each range range and associated installation
- Evaluation of the *adequacy of current Service resources* for current and future training requirements
- Comprehensive plan to include proposals to enhance resource

Range Capabilities Document

- Articulate the CMC's requirement for training ranges and airspace to fulfill Title 10 responsibilities
- Categorize those ranges by function
- Establish the system of systems requirements for managing ranges and training airspace and for providing the instrumentation for objective feedback and after-action review at all levels of training
- Serve as the "Operational Requirements Document (ORD) for ranges and training areas

MCO 3550.9 Range Certification/Recertification

- **Four Elements**
  - **Facilities**
  - **NEPA**
  - **Training Standards**
  - **Range Operations – Safety**
- **Process**
  - **Certification**
    - **New Ranges**
  - **Recertification**
    - **Event/Calendar Driven**

WHERE DO I GET MY MONEY? HOW?

- 366 Report
- Range Capabilities Document
- Strategic Vision/Master Plan
- MCO 3550.9 Range Certification & Recertification
- Technical Assistance Visits (TAV's)

- **System Modernization & Replacement Program (SRAM)**
- **Ground Range Sustainment Program (GRSP)**
- **Facilities Sustainment, Restoration & Modernization (FSRM)**
- **Marine Corps Range Investment Program**

Systems Replacement And Modernization (SRAM)

- CNO program, sponsored by OPNAV, managed by PMA 248 and administered by NSWC Corona Division
- Provides replacement and modernization of generally low cost instrumentation
- Supplies vital minor equipment
- Meets emergent or urgent range needs

SRAM Items May:

- Simplify operations or maintenance
- Modernize or upgrade existing components
- Expand capabilities
- Enhance safety or security
- Reduce manpower requirements
- Provide new capabilities

SRAM Project Summary

03 September 2003

FY	TOTAL SRAM END ITEM BUDGET (IN $K)	TOTAL NAVY RANGE END-ITEM BUDGET (IN$K)	% OF TOTAL	TOTAL MC END-ITEM RANGE BUDGET (IN $K)	% OF TOTAL
00	$2,794.9	$2,158.7	77.2%	$636.2	22.8%
01	$4,286.0	$2,801.8	65.4%	$1,484.2	34.6%
02	$3,735.0	$2029.3	54.3%	$1,705.7	45.7%
03	$3,735.0	$2,285.4	61.2%	$1449.6	38.8%

Ground Range Sustainment Program

- Reference: MARADMIN 198/03 "Ground Range Sustainment Program“
- TECOM Website
  - R&TA Page
    - GRSP Button
    - Automatic Interface with SRAM Program Website
- Complete Required Fields
  - Location of Range
  - Description of Requirement
  - Category (Range Control, Safety, Operations, Surveillance)
  - Impact if not Funded
  - Possible Solution
- Website Will Provide Continuous Status of Projects
- Projects Not Funded One Year Will Remain On the List if Validated
- GRSP Complements SRAM—Does Not Replace It
  - Projects that do not make SRAM cut can compete for GRSP

FY ’04 GRSP STATUS

- 53 Projects Submitted
- Site Visits Conducted during January and February
- 38 Projects Were Validated for GRSP
  - 8 Projects Did Not Qualify for GRSP
    - New Construction
    - Exceeded Funding Limits
- Prioritization
- CG TECOM Approval Granted 7 April
- $655K Allowed the Top 8 Projects to be Funded
  - $405K Training Support
  - $250K CMC Reserve

FY ’04 Approved Projects

- **MCB Lejeune** (Est.)
  - Target Enhancements on SR 7 ($100K)
  - Target Control Computer (RM 9000) ($10K)
- **MCB Quantico**
  - Replace Pistol Range Target System ($50K)
- **MCB Pendleton**
  - Combined Grenade Range Projects ($98K)
  - SAT Target Lifter Emplacements (R218 & R223) ($20K)
- **MCB Butler**
  - Range Control Electronics Upgrade ($80K)
- **MCAS Yuma**
  - Range Operations Center Electronics Upgrade ($200K)
- **MCB Hawaii**
  - Replace Pistol Range Target System ($80K)

Resource Investment Strategy

Current Situation

- **CORRS Report of 2002**
  - 9 or 14 Range Complexes Report C3 or C4 for Material Condition and Quantity
- **PAC/LANT**
  - Message Traffic Expressing Concern for Conditions and Funding of Ranges
- **IAB**
  - TECOM Tasked with aligning MILCON, PMC, O&M Funding for Range Enhancements
- **MROC**
  - "…failure to invest in needed training initiatives will result in USMC falling further behind other Services…range investment must become a focus…."
- **JNTC Range Certification**
  - Must Meet JTT Instrumentation Requirements

Range Investment Strategy

- **Two-Phased Plan**
  - **PHASE I (Shaping Operation) POM 06**
    - Sustainment: *"The Cost of Doing Business"*
    - Modernization: Exercise Instrumentation *"Playing in the Joint Arena"*
    - Upgrades: Begin Homestation Instrumentation
  - **PHASE II (Modernization/Transformation) POM 08**
    - Modernization: MAGTF Training Opportunities
      - 29 Palms/Yuma
      - Camp Pendleton/Camp Lejeune
    - Upgrade: Home Station Instrumentation
    - Sustainment: Range Operation Support Programming

INITIAL FY ’06 -’11 RANGE INVESTMENT STRATEGY

	FY06	FY07	FY08	FY09	FY10	FY11
Sustainment (O&M/PMC/MILCON)	$10.8M (9.2/1.6/0)	$13.05M (9.85/3.2/0)	$11.25M (10.65/0.6/0)	$9.4M (9.4/0/0)	$9.4M (9.4/0/0)	$9.4M (9.4/0/0)
Upgrades (O&M/PMC/MILCON)	$15.7M (.5/2.3/12.9)	$17.9M (.5/1.5/15.9)	$15.5M (0/1.0/14.5)	$13.1M (0/3.3/9.8)	$9.0M (0/2.0/7.0)	$11.6M (0/2.1/9.5)
Modernization (O&M/PMC/MILCON)	$31.3M (5.4/25.9/0)	$18.3M (7.4/10.9/0)	$15.6M (10.1/5.5/0)	$10.1M (10.1/0/0)	$12.1M (12.1/0/0)	$12.1M (12.1/0/0)
TOTALS	$57.8M	$49.25M	$42.35M	$32.6M	$30.5M	$33.1M

RANGE INVESTMENT STRATEGY FY's '06-11

Program Element	FY/06	FY/07	FY/08	FY/09	FY/10	FY/11
SUSTAINMENT (O&M)						
Ground Range Sustainment Program	$2.5M	$2.5M	$3.00M	$3.0M	$3.0M	$3.0M
Range Management System	$1.15M	$1.15M	$2.00M	$2.0M	$2.0M	$2.0M
Range Sustainment Plans	0	0	$.85M (CAMPEN)	$.85M (Yuma)	$.85M (Butler)	$.3M
Range Control	$2.3M (YUMA)	$3M (CP & YUMA)	$3.70M (CP,Yuma,Quantico)	$4.4M (Butler)	$4.0M (MWTC)	$3.5M
Range Safety	$1.1M	$1.1M	$1.1M	$1.1M	$1.1M	$1.1M
Range Maintenance Program	0	0	$2.5M	$3.0M	$3.0M	$3.0M
TOTAL	**$7.05M**	**$7.75M**	**$13.15M**	**$14.35M**	**$13.95M**	**$12.9M**
UPGRADE						
Home Station Instrumented Ranges (RETS)						
PMC	$.307M (P613)	0	$2.0M (P034/P637)	$1.5M (P030/P565)	$1.0M (P566)	$3.26M (P031/P032/P620)
MILCON	0	0	$14.6M (P034/P637)	$16.0M (P030/P565)	$14.5M (P566)	$9.84M (P031/P032/P620)
LOMAH			$.5M	$.5M	0	0
TOTAL	**$.307M (PMC)**	**0**	**$17.1M**	**$18.0M**	**$15.5M**	**$13.1M**
MODERNIZATION						
Range Instrumentation Total	0	0	$25.5M (Yuma/Quantico)	$27.4M (CLNC)	$33.4M (CAMPEN)	$25.3M (29 Palms)
O&M	$3.3M (29 Palms)	$3.3M (29 Palms)	$5.3M	$7.0M	$8.7M	$8.7M
PMC			$16.0M	$17.0M	$21.8M	$14.1M
RDT&E			$4.2M	$3.4M	$2.9M	$2.5M
MOUT Instrumentation Total	0	0	$14.4M (CLNC)	$2.1M (CLNC)	$2.1M (CLNC)	$2.1M (CLNC)
O&M			$2.1M	$2.1M	$2.1M	$2.1M
PMC			$12.3M	0	0	0
RDT&E			0	0	0	0
TOTAL	**$3.3M**	**$3.3M**	**$39.9M**	**$29.5M**	**$35.5M**	**$27.4M**
PROGRAM TOTAL	**$10.66M**	**$11.05M**	**$70.15M**	**$61.85M**	**$64.95M**	**$53.4M**

COMMENT: FY's '08-'11 ADD PROGRAMS PREVIOUSLY BRIEFED TO BEGIN IN FY '06.

HOW DO I MANAGE MY RANGES?

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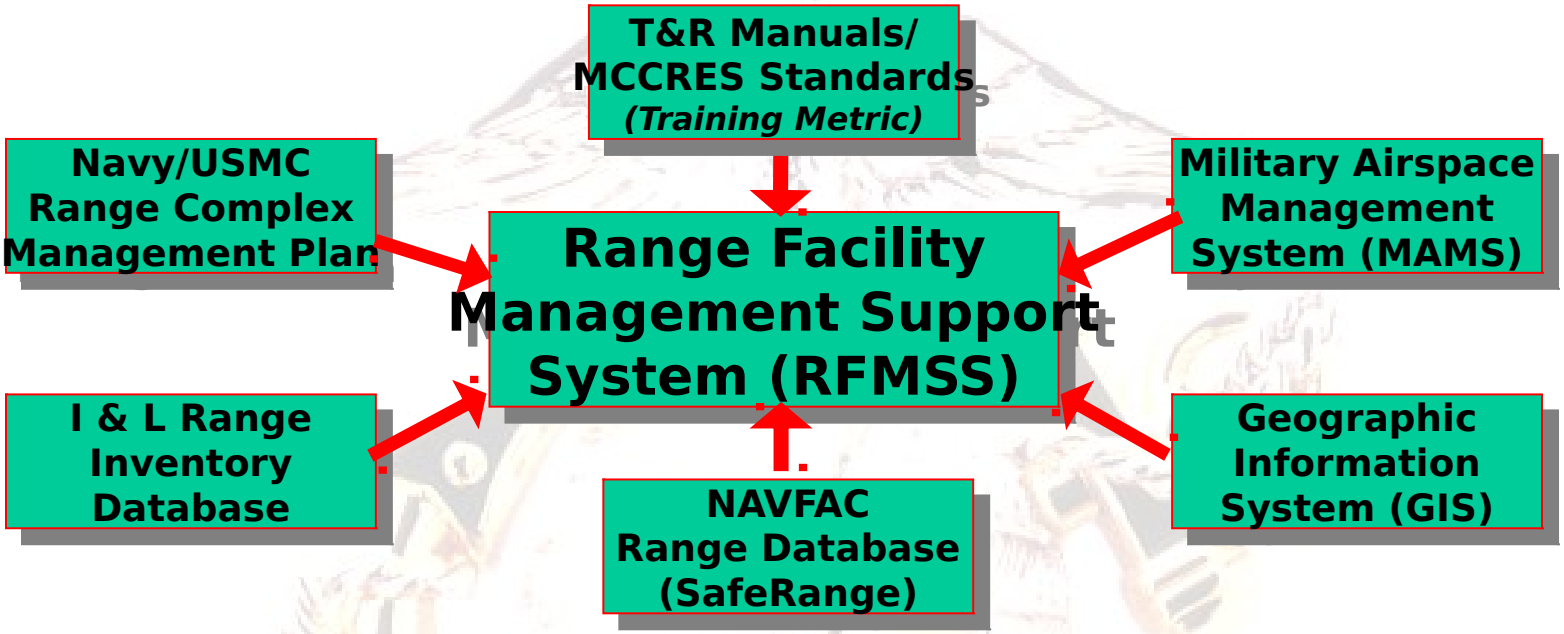
- **MCO 3600**
- **Marine Corps Range Management System**
  - **Range Facilities Management Support System**

Range Management System



Capabilities

•Schedule Ranges/Training Areas	•Measure Encroachment Effect
•Plan/Develop Training	•Perform Training Cost-Benefit Analysis
•Gather Utilization Data	•Plan/Prioritize Range Sustainment and Modernization
•Facilitate Cross Service Range Use	•Relate Ranges to Readiness

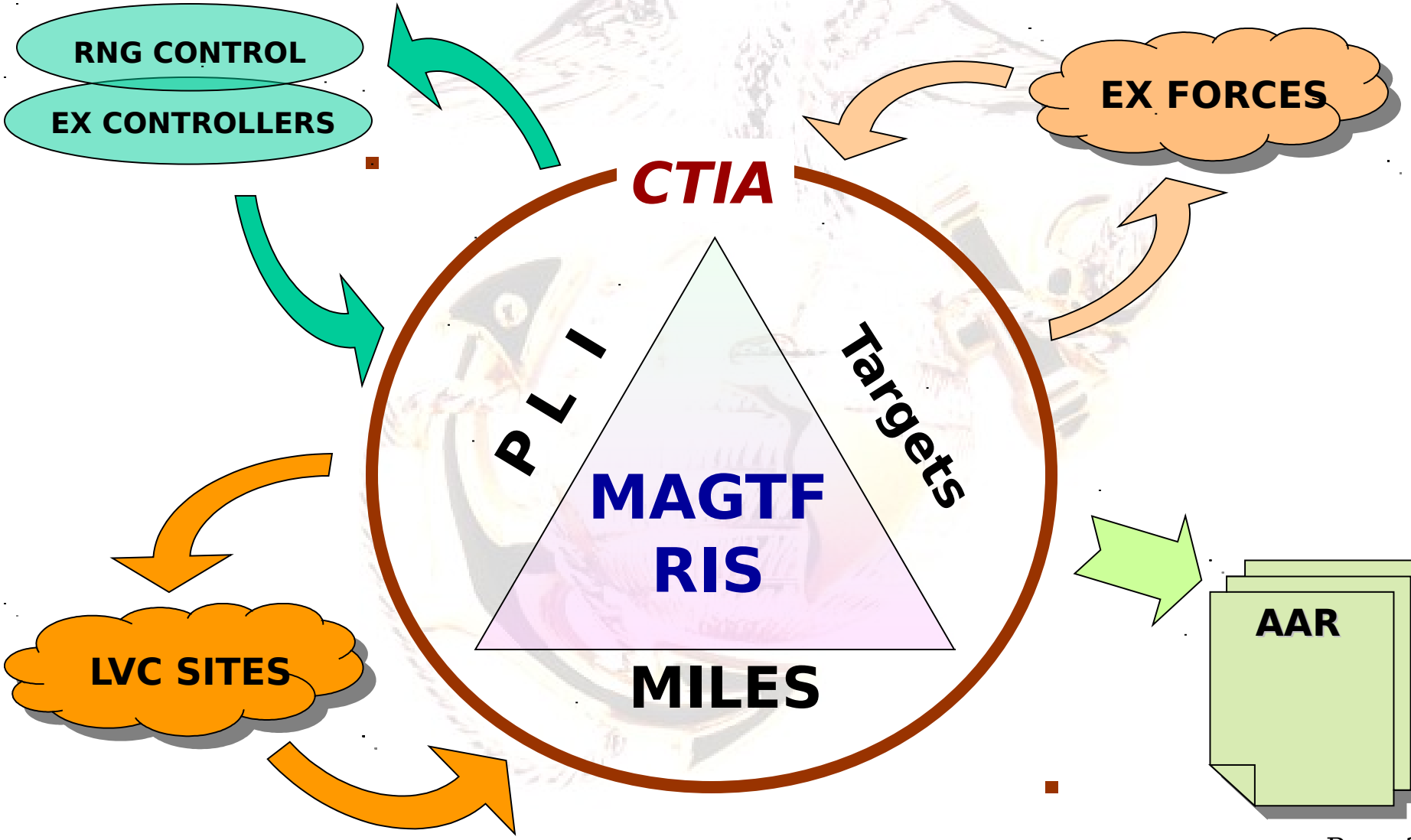
RFMSS 2002 Fielding Schedule

- FY'03
  - MCB Quantico — **Completed**
  - MCRD Parris Island — **Completed**
  - MCB Hawaii — **Completed**
- FY'04
  - MCB Camp Lejeune — **Completed**
  - MCB Camp Pendleton — **AUG '04**
  - MAGTF Training Command — **Completed**
  - MCB Camp Butler — **AUG '04**
- FY'05
  - MCAS Yuma — **JAN '05**
  - MCAS Cherry Point — **NOV '04**
  - MCAS Miramar — **NOV '04**
  - Albany/Barstow/Dam Neck/Chesapeake — **FEB '05**

WHAT RANGE RELATED INITIATIVES/ISSUES WILL I SEE?

- Joint National Training Capability (JNTC)
- Munitions Constituent Migration/ Residue Removal
- Air Traffic Control/Range Control
- MOUT Facilities
- FY'08 POM Cycle

Range Instrumentation System



RANGE MANAGEMENT SUMMARY

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- MCO 3600 Marine Corps Range Management
- Marine Corps Range Management System
- Range Facilities Management Support System

- Joint National Training Capability (JNTC)
- Munitions Constituent Migration/ Residue Removal
- Air Traffic Control/Range Control
- MOUT Facilities

Range and Training Area Management Division

USMC Range Program

Back-Up Slide

Sustainment Initiatives

	AMOUNT	INITIATIVE
RANGE MANAGEMENT	$300K	GIS/Website (Management)
	$150K	GIS Updates/Data Development
	$50K	GIS Training
	$300K	RFMSS Sustainment (ARMY)
	$600K	RFMSS Support (TECOM/Regional)
	$150K	366 Support
TOTAL	**$1.55M**	
RANGE SAFETY	$100K	Level II Support
	$300K	Contract Instructors
	$150K	Course Updates
	$300K	SDZ Tool/LASER Tool
	$150K	Safe Range Support
	$100K	Safe Range Ordnance Types

Sustainment Initiatives

	AMOUNT	INITIATIVE
RANGE CONTROL	$800K	Comm Suite (FM/UHF/VHF Base Station & Handhelds, Phone Hot Lines, Retrans Equipment/Repeaters, Voice Recorders, UPS/Generator)
	$90K	RFMSS Suite (Servers, Software, Map Plotter)
	$200K	Integrated Large Screen Display (Plasma Smart Boards, Computers, Servers, Software)
	$300K	ATC Radar Feed
	$25K	GPS Equipment
	$500K	7 Additional GS Personnel
TOTAL	**$1.915 M**	

GRSP Cycle

Bases Identify & Submit Requirements

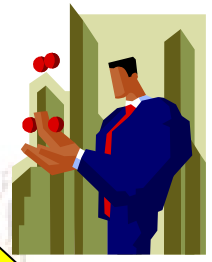
Sept-Jan

TECOM, SYSCOM & NWSC Conduct Site Visits

Jan-Mar

Develop Engineering And Cost Estimates

April-May



MARFORs Prioritize

June

MARFORs Submit Lists

June

Advocate Representatives Prioritize All Requiremen

July

Acquisition Plan Developed by TEOCM/SYSCOM/NWSC

July

Acquisition Plan Approved By CG TECOM

August

Budget Authority

Aug-Sep

Solutions Developed rocured and Installed

Cycle Start/End

OSD Sustainable Range POM Guidance

Dr. Chu (P&R) Issued 26 June
SECNAV Endorsed 1 August

- **INFRASTRUCTURE – "Modernize range facilities to sustain range operations…"**
- **OPERATIONS – "Resource for standardized land management…"**
- **MAINTENANCE – "Resource for restoration and maintenance…"**
- **ENCROACHMENT – "Maximum accessibility…"**
- **ENVIRONMENT – "Focus the environmental management systems to fully support sustained access…"**

Automated Ranges

- RETS (ORD Approved 17 May 95)
  - Computerized/Hard-wired
  - Automated Scenarios
  - Permanent Construction
  - 21 of 40 Complete
- PITS (MNS Approved 10 Dec 93)
  - Computerized/Portable
  - Remote Controlled
  - Automated Scenarios
  - Exist at all USMC Training Complexes
- LOMAH (ORD Approved 14 Nov 97)
  - Digital Feedback
  - Automatic Scoring
  - Two KD Ranges Complete (K-Bay & Miramar)

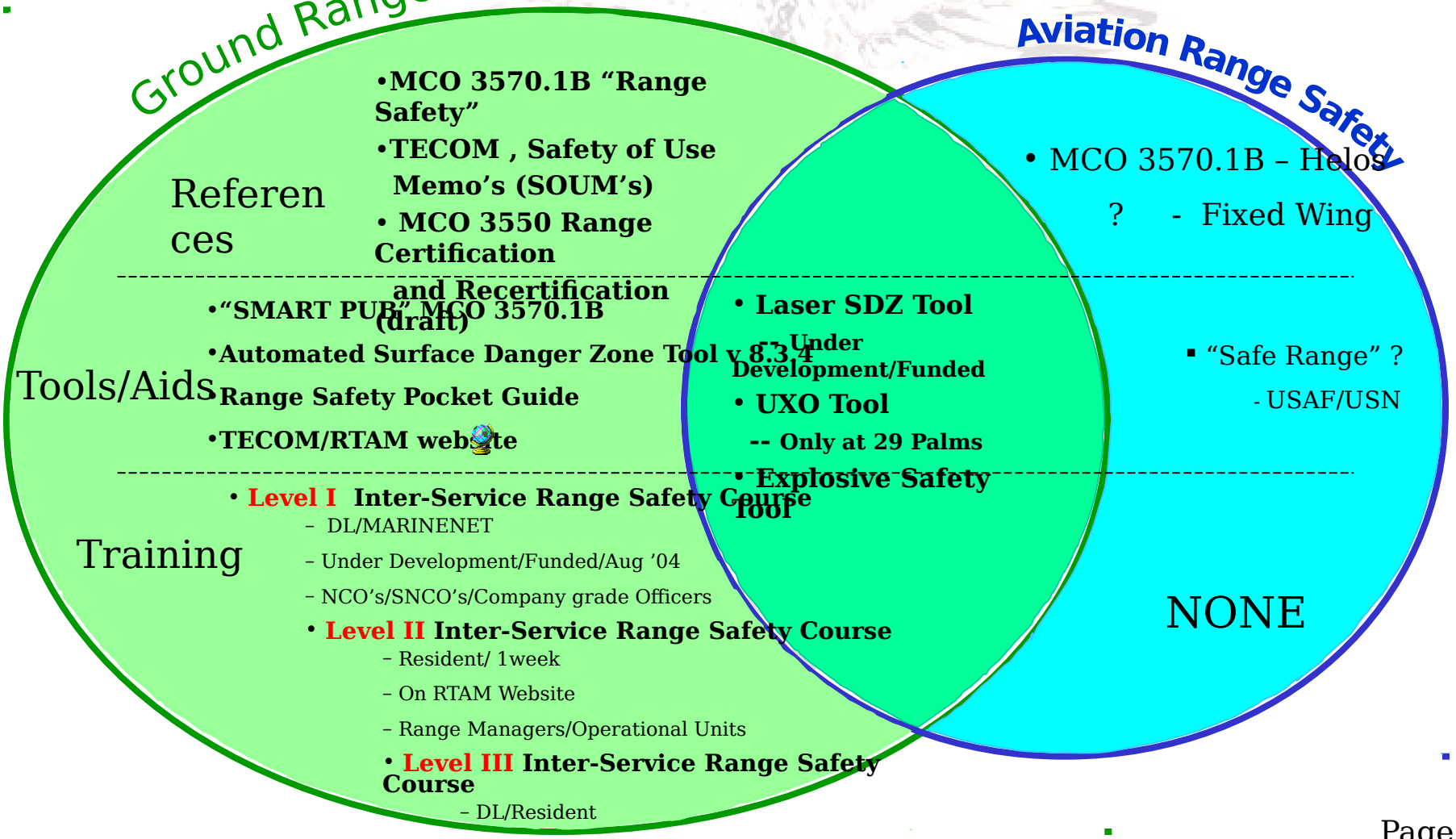
What Has Happened Since?

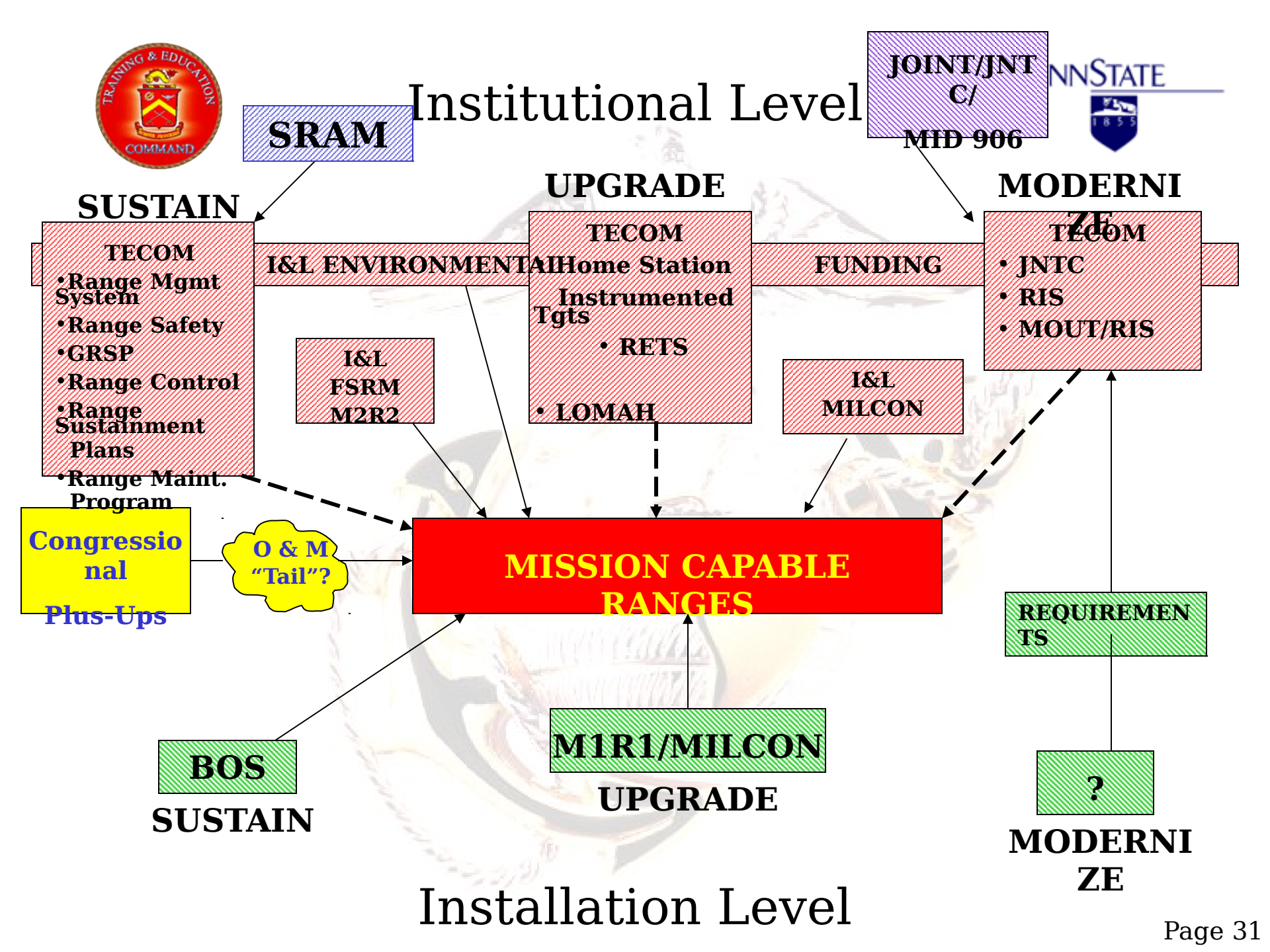
GAO AUDIT…

- **”MAINTENANCE AND MODERNIZATION OF DoD TRAINING RANGES” (25 May ’03)**
- **“…Current trends for…maintenance and modernization funding…”**
- **“…How the services identify and fund ranges…”**
- **“…How maintenance and modernization funding and**

Range Safety Program

"…installation range control officer…
is responsible for all range safety matters…"




Institutional Level
SRAM
JOINT/JNTC/
MID 906
SUSTAIN
UPGRADE
MODERNIZE
TECOM
•Range Mgmt System
•Range Safety
•GRSP
•Range Control
•Range Sustainment Plans
•Range Maint. Program
I&L ENVIRONMENTAL
TECOM
Home Station Instrumented Tgts
• RETS
• LOMAH
FUNDING
TECOM
• JNTC
• RIS
• MOUT/RIS
I&L FSRM M2R2
I&L MILCON
Congressional
Plus-Ups
O & M "Tail"?
MISSION CAPABLE RANGES
REQUIREMENTS
BOS
SUSTAIN
M1R1/MILCON
UPGRADE
?
MODERNIZE
Installation Level